

Figure 1

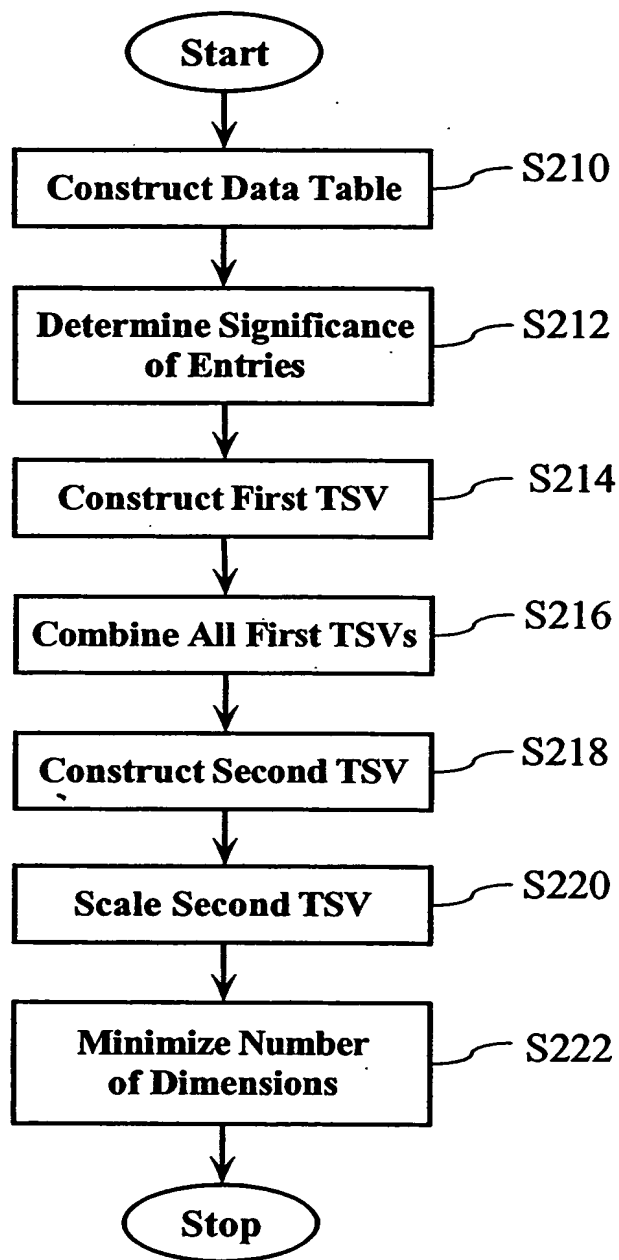


Figure 2

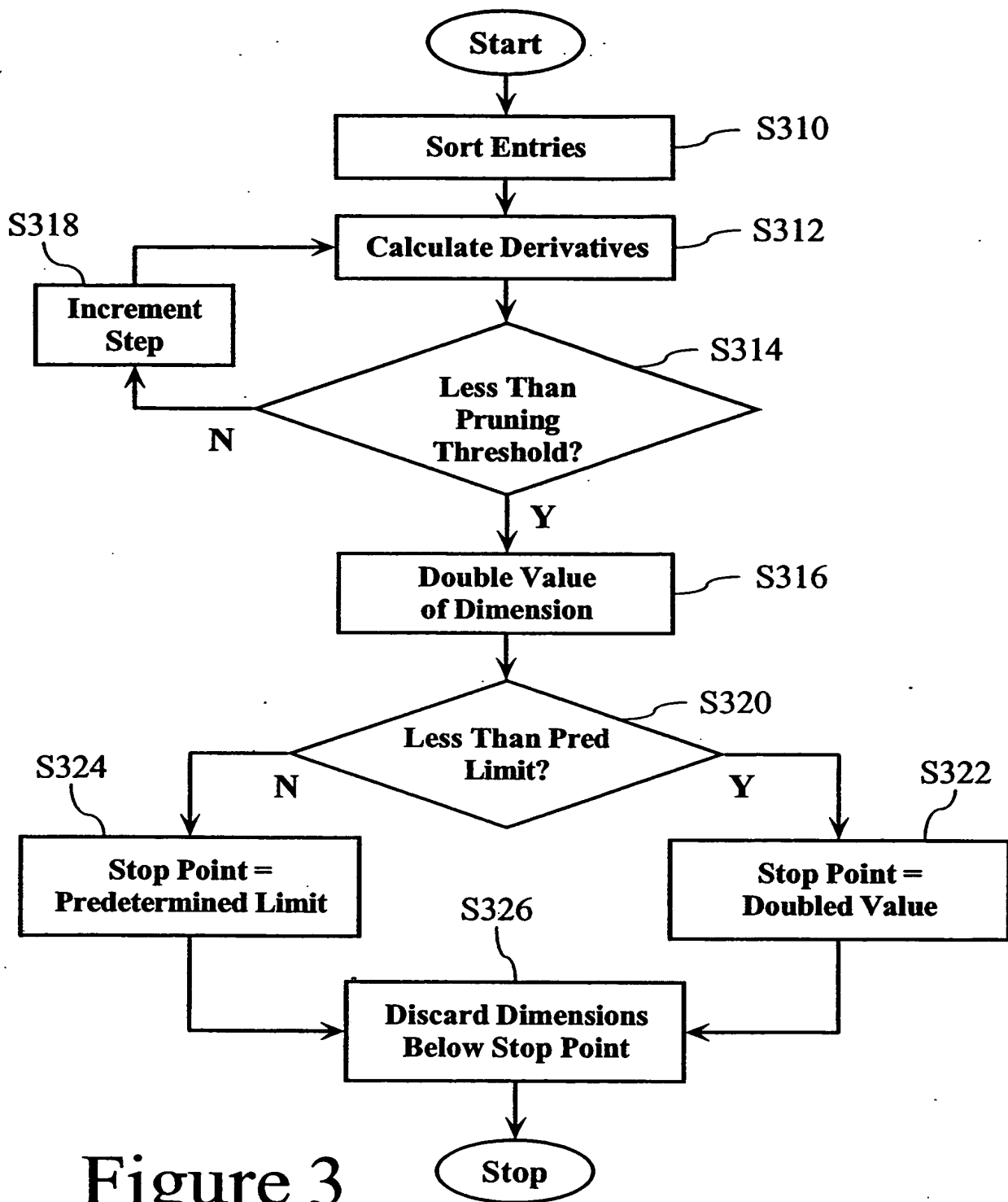


Figure 3

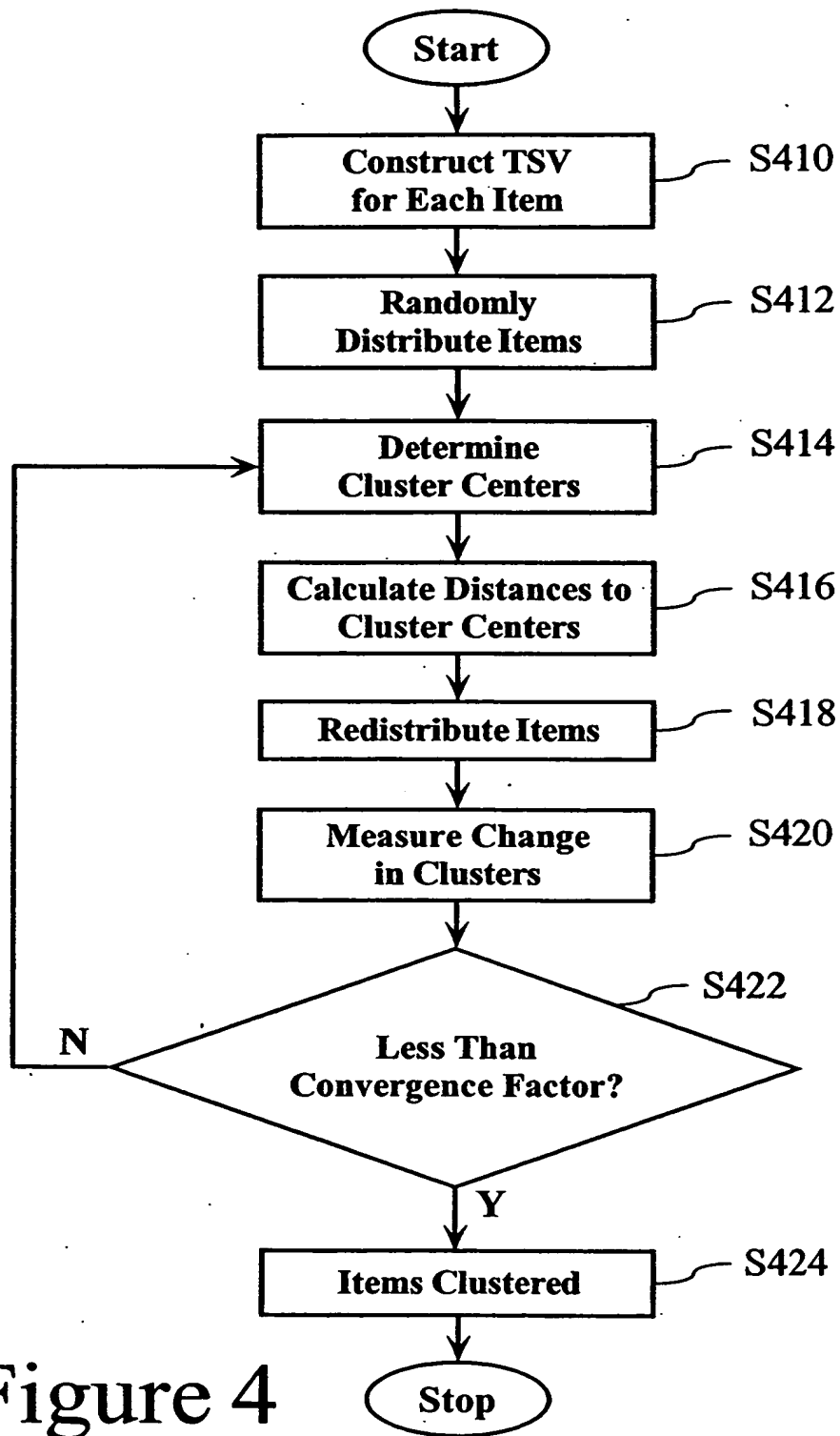


Figure 4

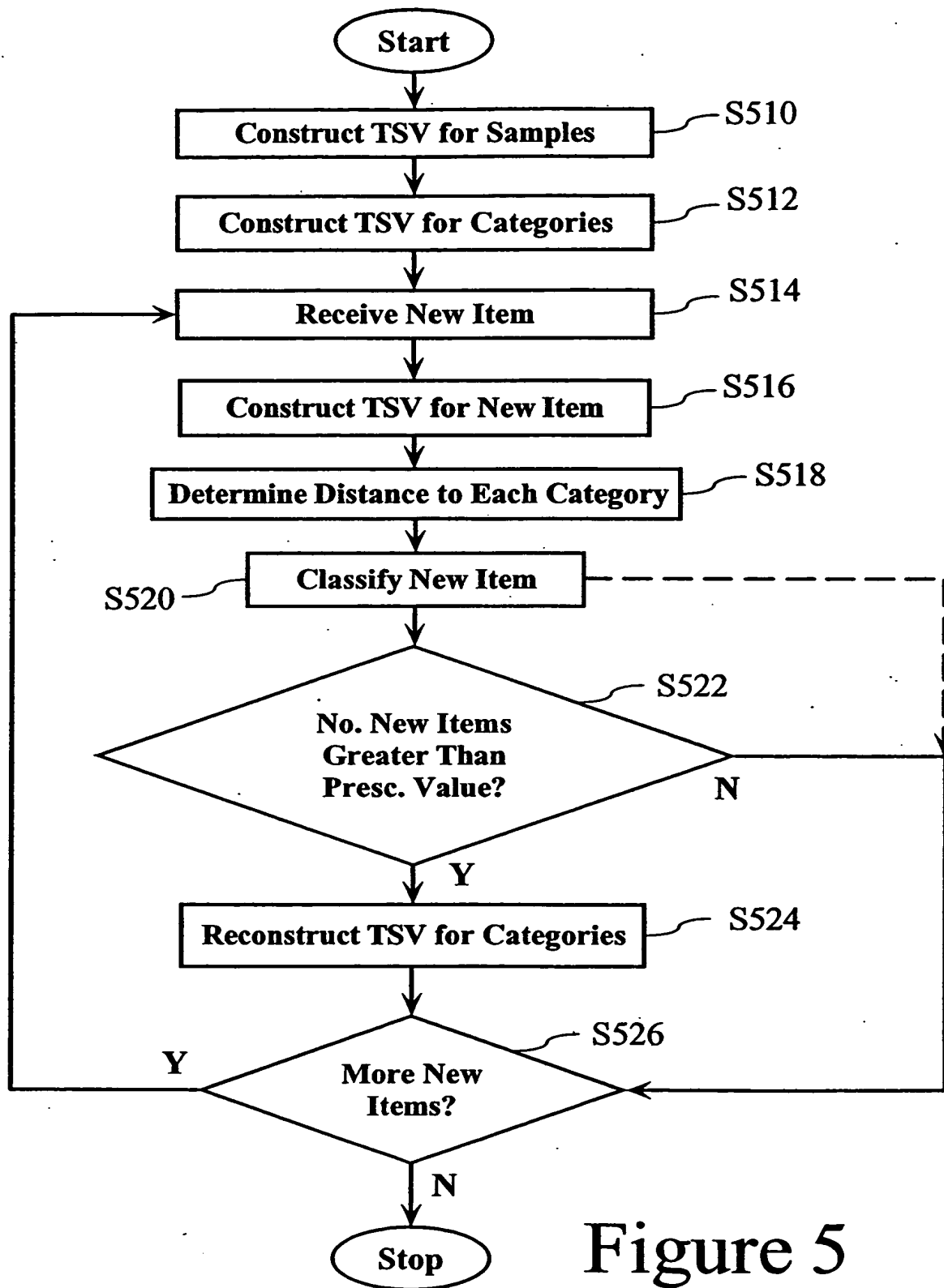


Figure 5

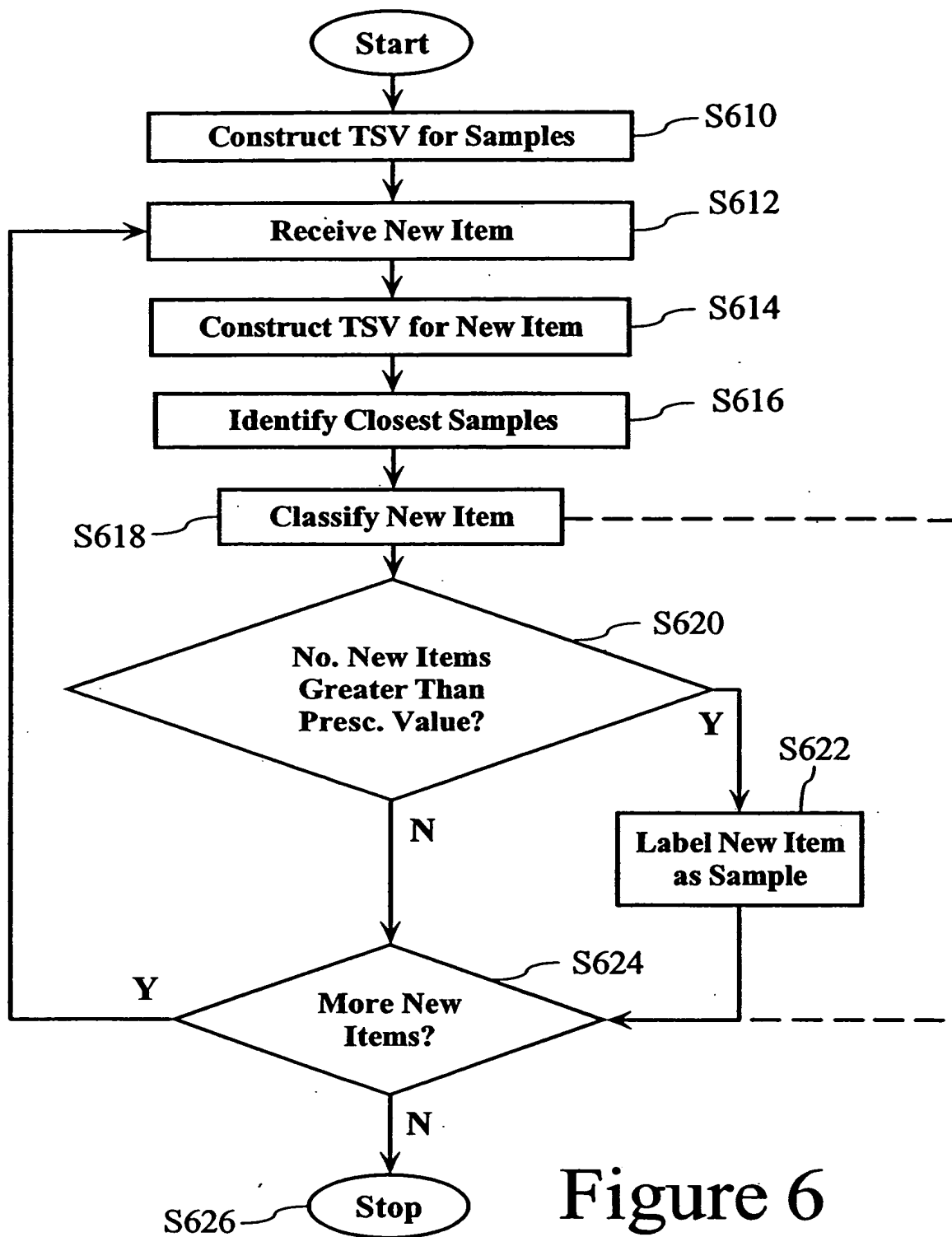
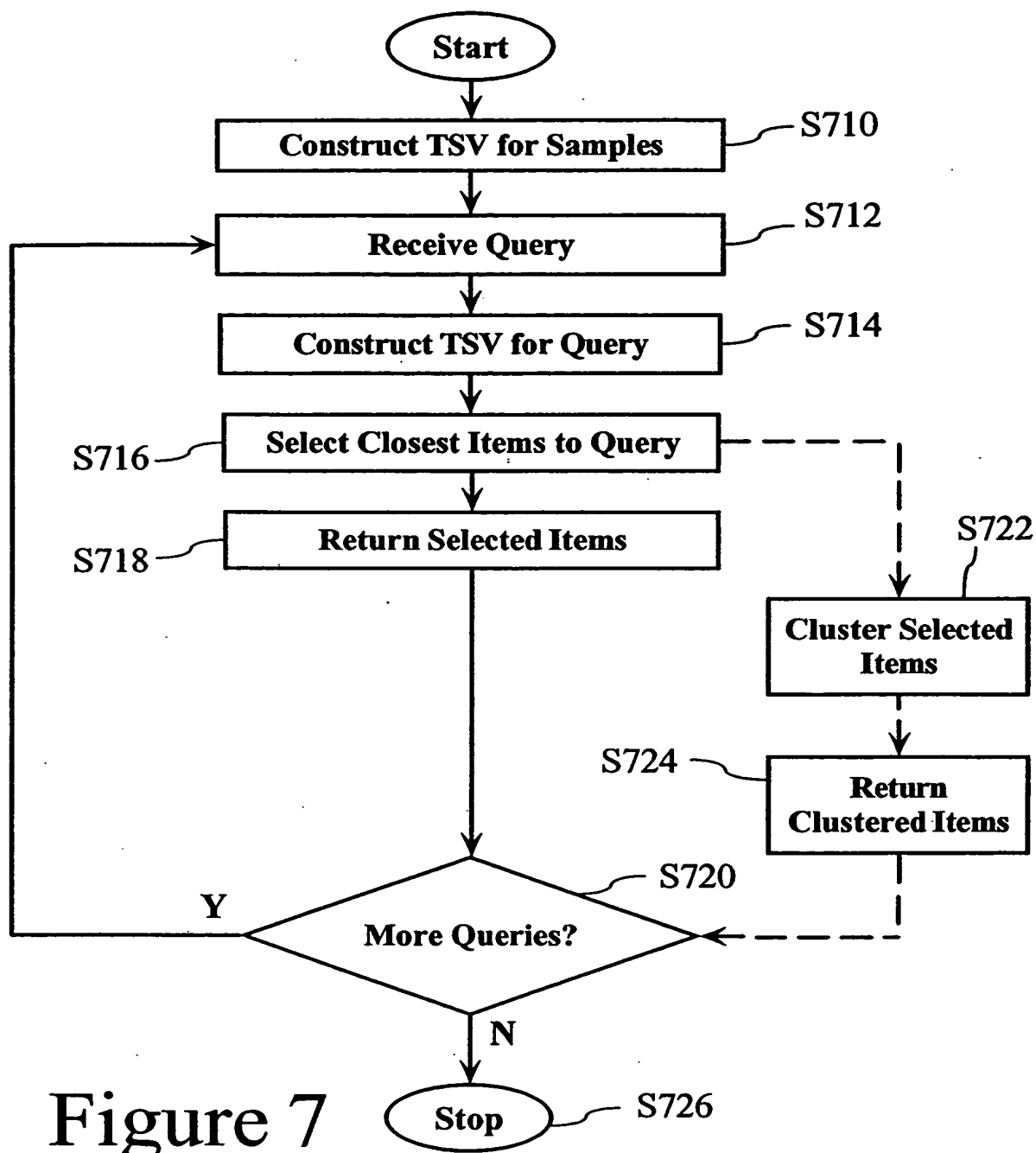


Figure 6



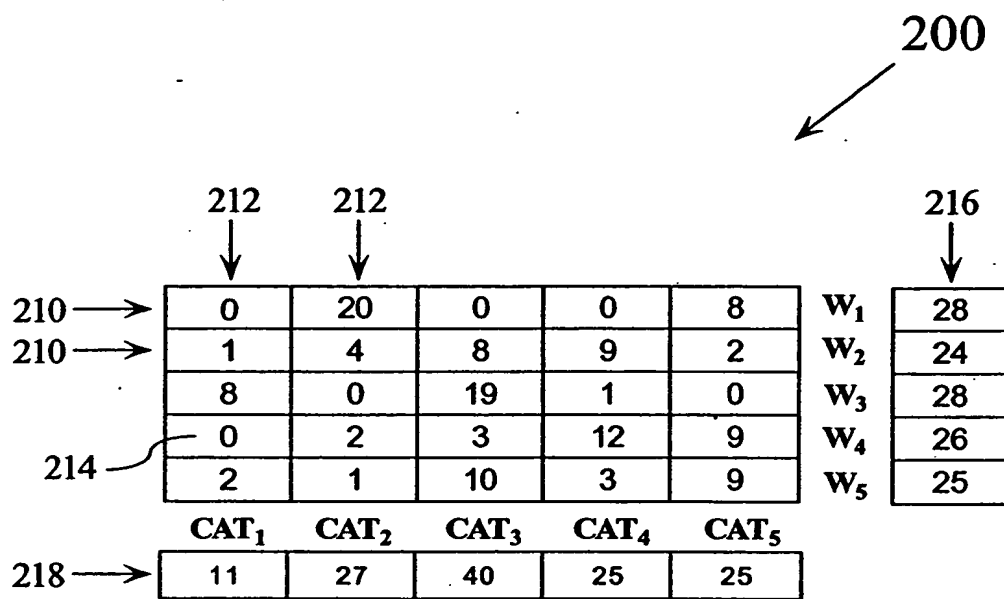


Figure 8



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	CAT <sub>1</sub>	CAT <sub>2</sub>	CAT <sub>3</sub>	CAT <sub>4</sub>	CAT <sub>5</sub>
<b>u(W<sub>1</sub>)</b>	0.00	0.74	0.00	0.00	0.10
<b>u(W<sub>2</sub>)</b>	0.09	0.15	0.20	0.36	0.03
<b>u(W<sub>3</sub>)</b>	0.73	0.00	0.48	0.04	0.00
<b>u(W<sub>4</sub>)</b>	0.00	0.07	0.08	0.48	0.11
<b>u(W<sub>5</sub>)</b>	0.18	0.04	0.25	0.12	0.11
<b>v(W<sub>1</sub>)</b>	0.00	0.71	0.00	0.00	0.29
<b>v(W<sub>2</sub>)</b>	0.04	0.17	0.33	0.38	0.08
<b>v(W<sub>3</sub>)</b>	0.29	0.00	0.68	0.04	0.00
<b>v(W<sub>4</sub>)</b>	0.00	0.08	0.12	0.46	0.35
<b>v(W<sub>5</sub>)</b>	0.08	0.04	0.40	0.12	0.36

Figure 9

	CAT <sub>1</sub>	CAT <sub>2</sub>	CAT <sub>3</sub>	CAT <sub>4</sub>	CAT <sub>5</sub>
<b>TSV(W<sub>1</sub>)</b>	0.00	0.72	0.00	0.00	0.24
<b>TSV(W<sub>2</sub>)</b>	0.05	0.16	0.30	0.37	0.07
<b>TSV(W<sub>3</sub>)</b>	0.40	0.00	0.63	0.04	0.00
<b>TSV(W<sub>4</sub>)</b>	0.00	0.08	0.11	0.47	0.29
<b>TSV(W<sub>5</sub>)</b>	0.11	0.04	0.36	0.12	0.30

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Figure 10

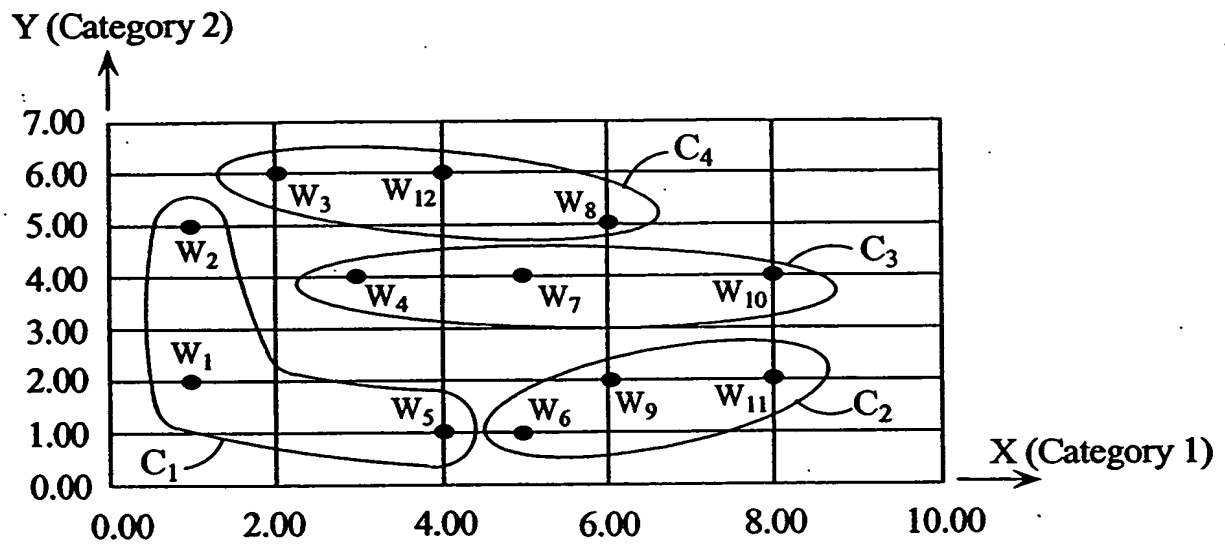


Figure 11

Categories		
Words	X	Y
W <sub>1</sub>	1.00	2.00
W <sub>2</sub>	1.00	5.00
W <sub>3</sub>	2.00	6.00
W <sub>4</sub>	3.00	4.00
W <sub>5</sub>	4.00	1.00
W <sub>6</sub>	5.00	1.00
W <sub>7</sub>	5.00	4.00
W <sub>8</sub>	6.00	5.00
W <sub>9</sub>	6.00	2.00
W <sub>10</sub>	8.00	4.00
W <sub>11</sub>	8.00	2.00
W <sub>12</sub>	4.00	6.00

Figure 12

### Categories

Cluster Centers	X	Y
$c^c_1$	2.00	2.66
$c^c_2$	6.33	1.66
$c^c_3$	5.33	4.00
$c^c_4$	3.00	5.66

Figure 13

	$D_{c1}$	$D_{c2}$	$D_{c3}$	$D_{c4}$
$w_1$	1.20	5.34	4.77	4.18
$w_2$	2.54	6.29	4.45	2.11
$w_3$	3.33	6.13	3.89	1.05
$w_4$	1.67	4.07	2.33	1.67
$w_5$	2.60	2.43	3.28	4.77
$w_6$	3.43	1.49	3.02	5.08
$w_7$	3.28	2.69	0.33	2.60
$w_8$	4.63	3.35	1.20	3.07
$w_9$	4.06	0.47	2.11	4.74
$w_{10}$	6.15	2.87	2.67	5.27
$w_{11}$	6.04	1.70	3.33	6.20
$w_{12}$	3.89	4.92	2.40	1.05

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Figure 14

$C_1$	$W_1$	$W_4$		
$C_2$	$W_5$	$W_6$	$W_9$	$W_{11}$
$C_3$	$W_7$	$W_8$	$W_{10}$	
$C_4$	$W_2$	$W_3$	$W_4$	$W_{12}$

Figure 15

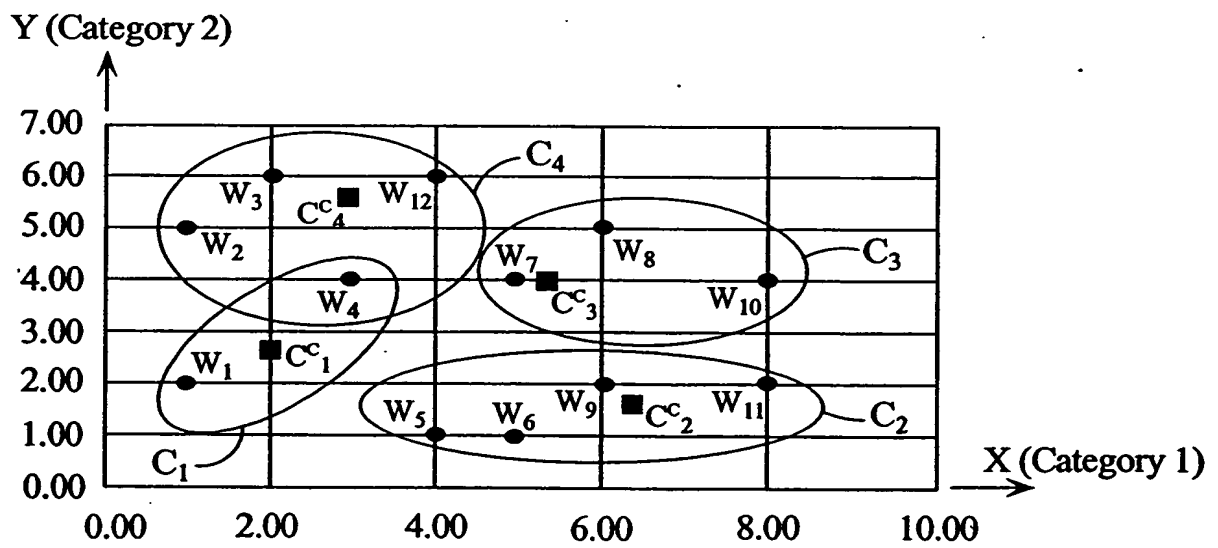


Figure 16